

INTRODUCTION OF ANATOMY

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An Overview of Anatomy

- **Anatomy** - The study of the ***structure*** of the human body

An Overview of Anatomy

- **Branches of anatomy**
 - Gross anatomy
 - Microscopic anatomy (histology)
 - Surface anatomy

Gross Anatomy – An Introduction

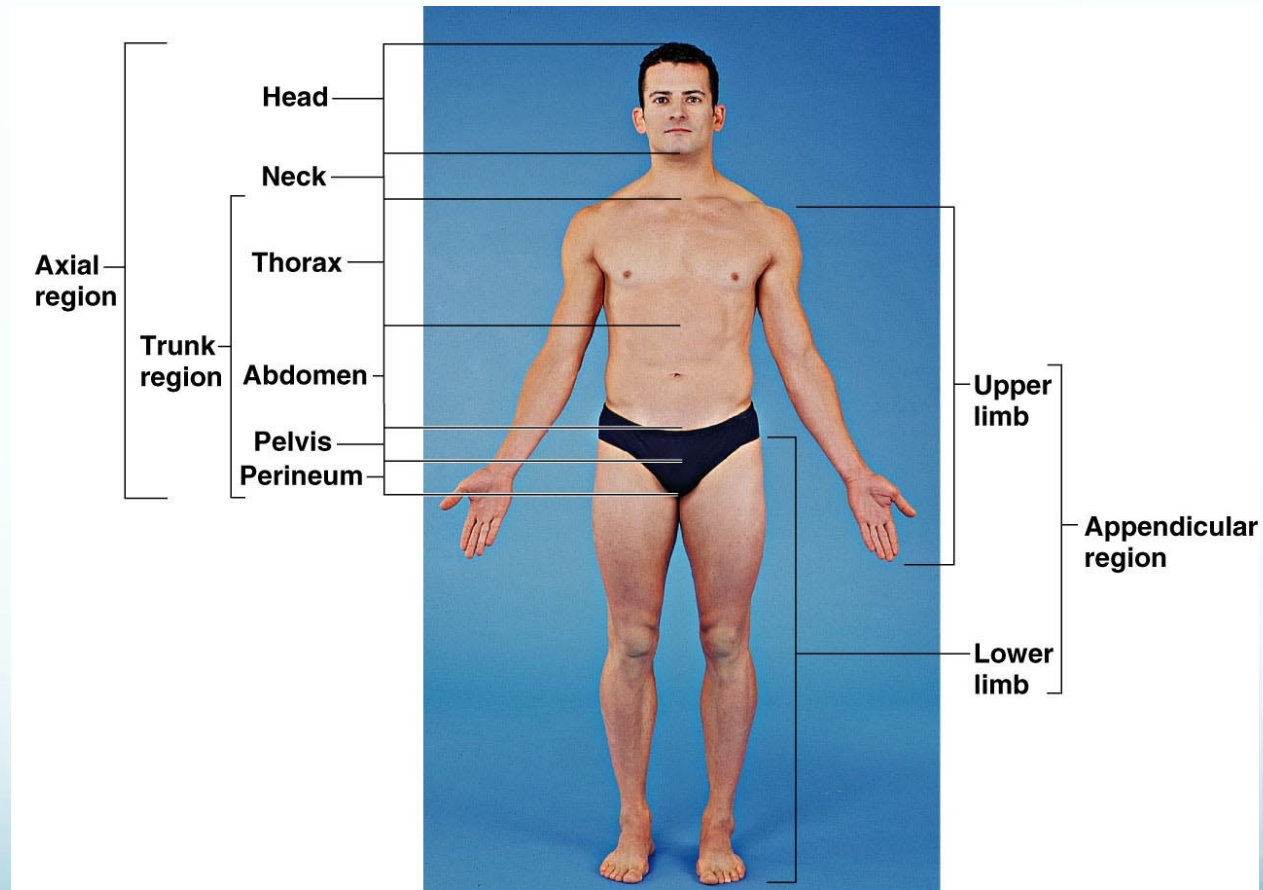


Figure 1.3

Gross Anatomy – An Introduction

- The study of anatomical features visible to naked eye on dead bodies

Systemic v. Regional Anatomy

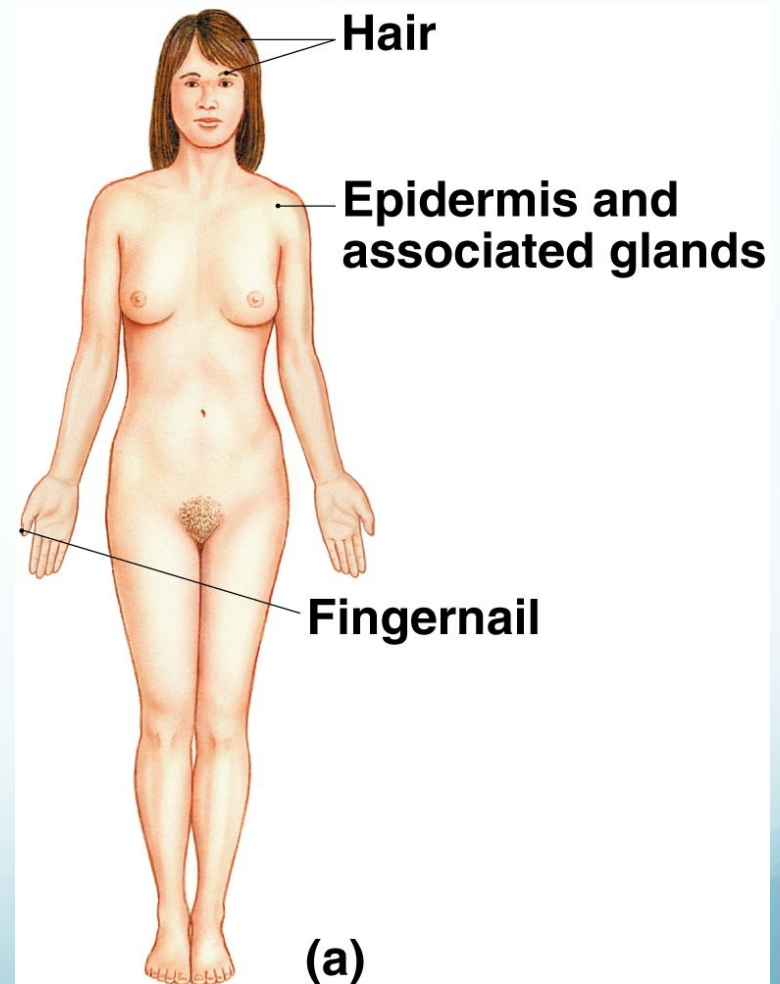
- **Regional** – study of anatomy by region
- Ex: upper limb ,thorax head and neck
- **Systemic** – study of anatomy by system

- **Surface anatomy:**

The study of anatomical landmarks that can be identified by observing the surface of body

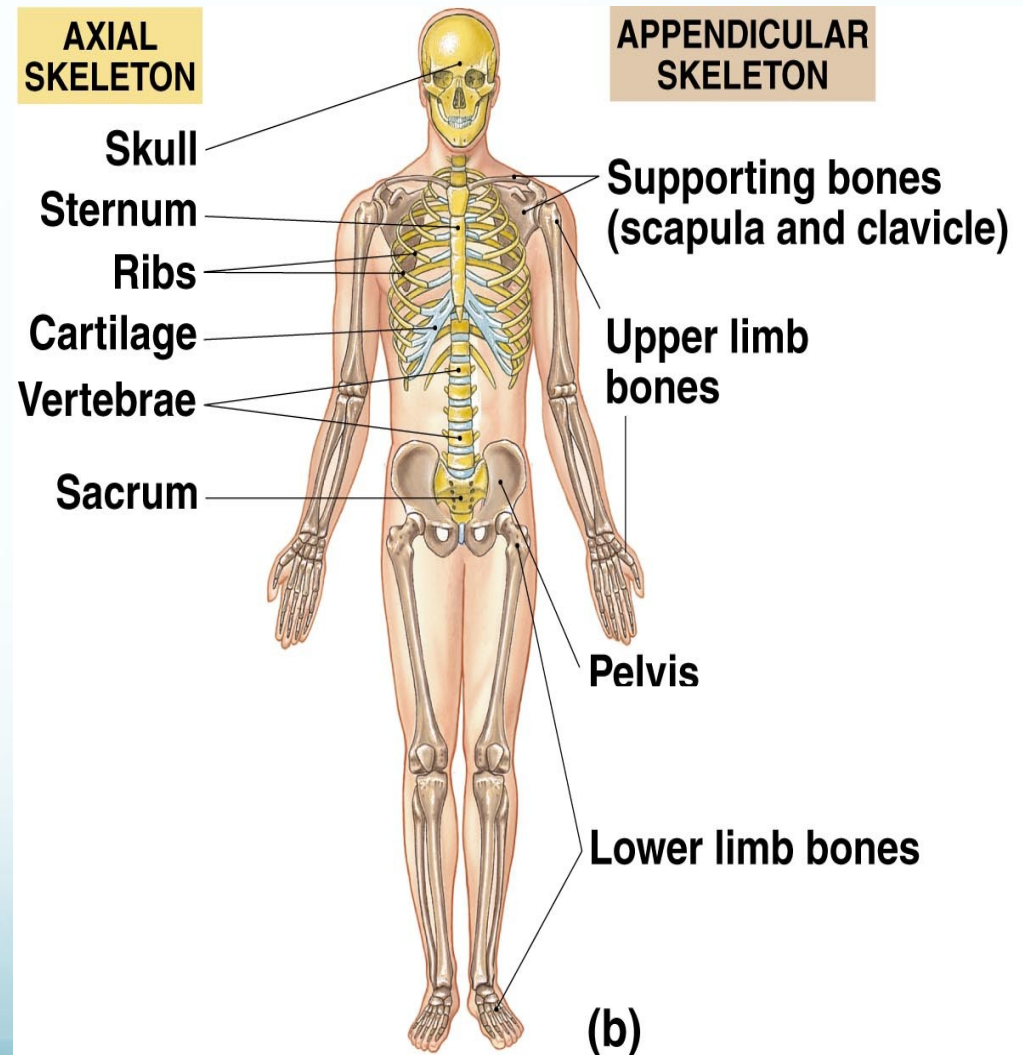
The Integumentary System

- Forms external body covering
- Protects deeper tissues from injury
- Synthesizes vitamin D
- Site of cutaneous receptors
 - (pain, pressure, etc.) and sweat and oil glands



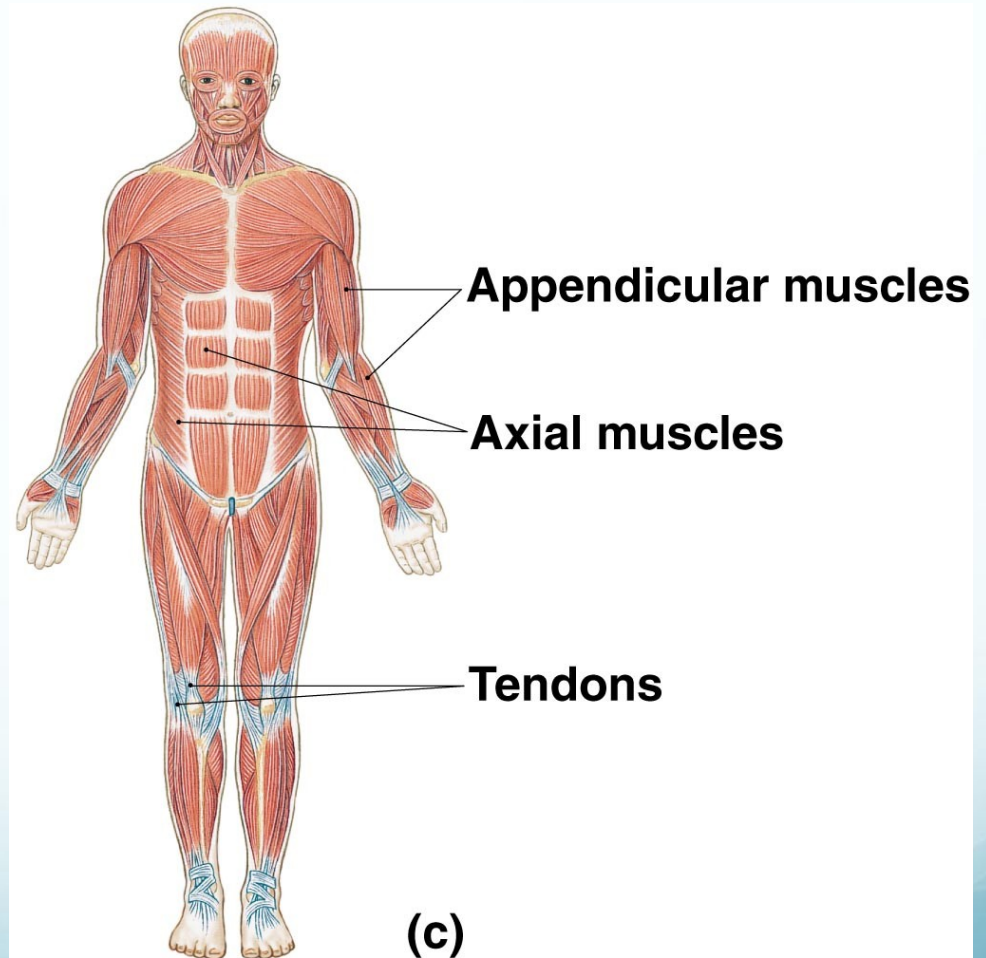
The Skeletal System

- Protects and supports body organs
- Provides a framework for muscles
- Blood cells formed within bones
- Stores minerals



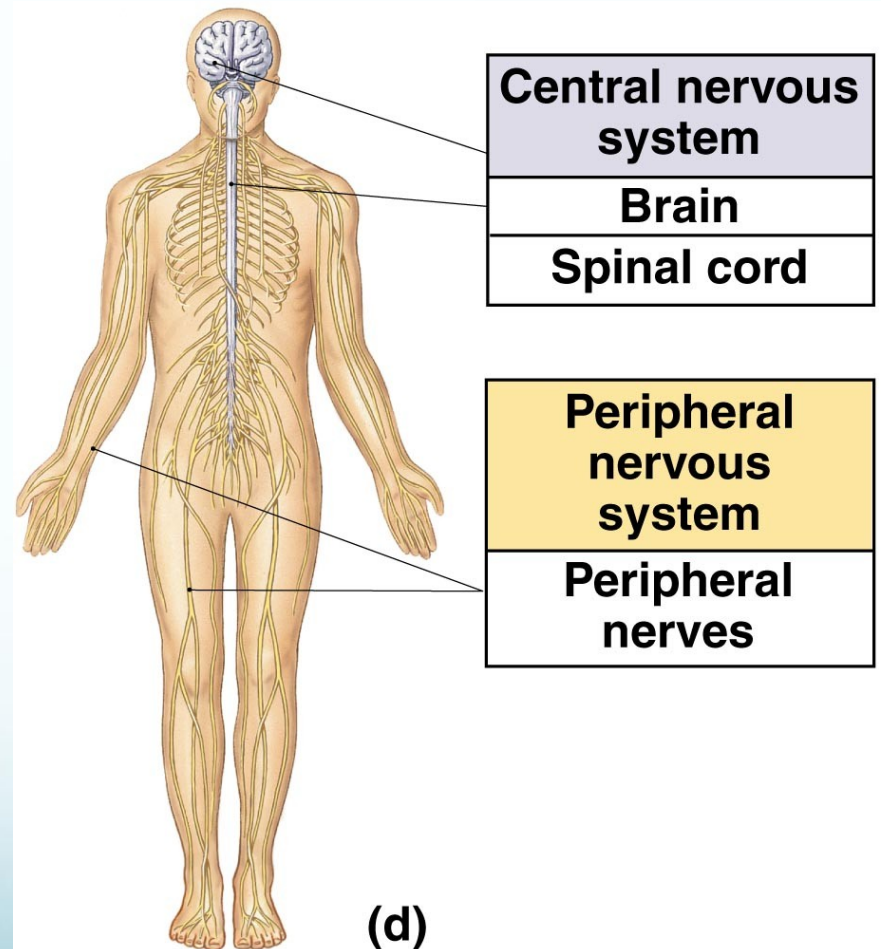
The Muscular System

- Locomotion
- Facial expression
- Maintains posture
- Produces heat



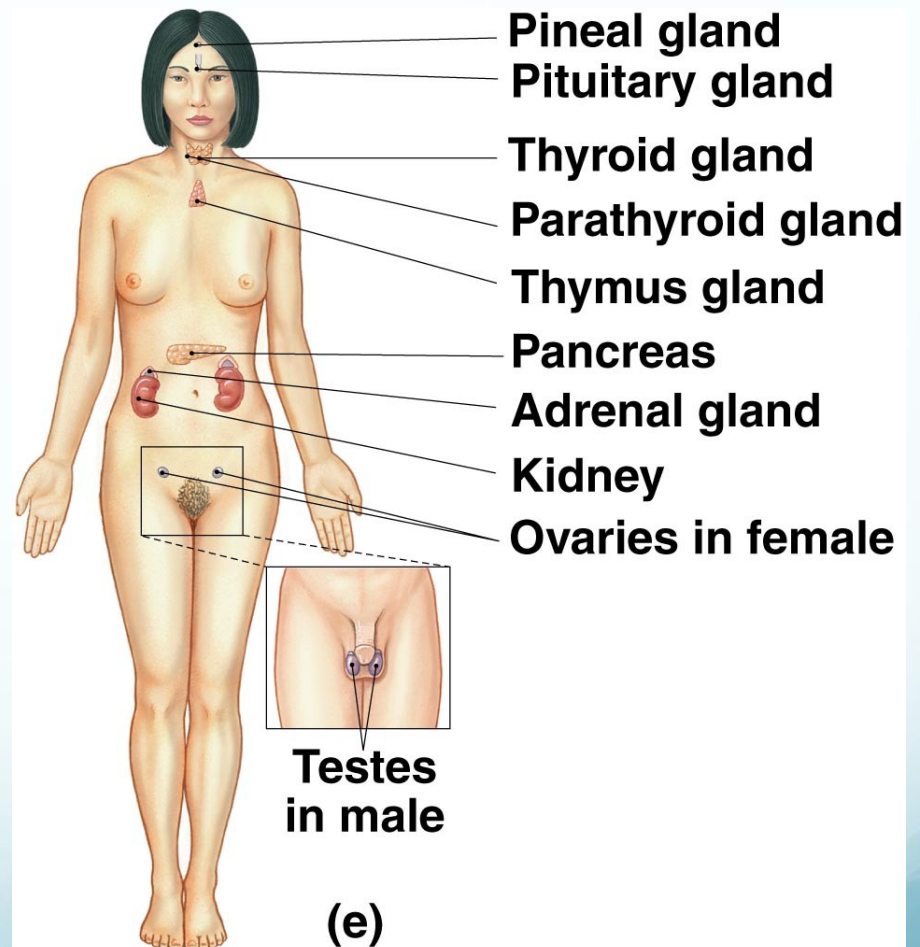
The Nervous System

- Fast-acting control system
- Responds to internal and external changes



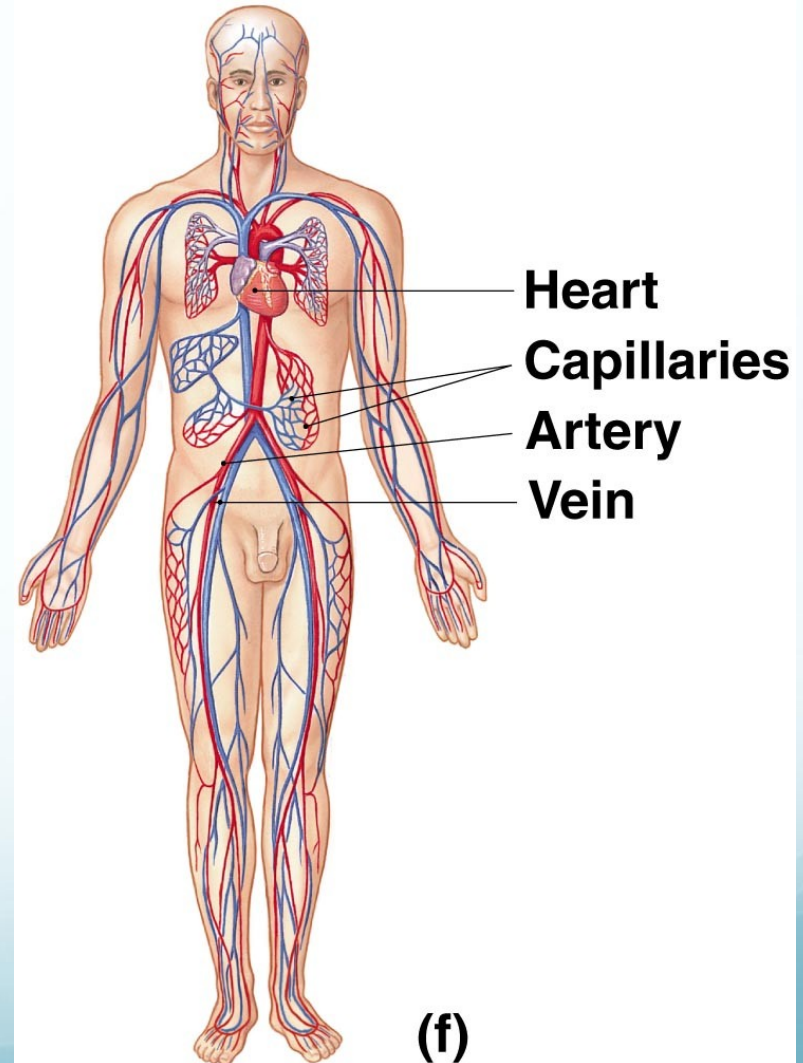
The Endocrine System

- Glands secrete hormones that regulate
 - Growth
 - Reproduction
 - Nutrient use



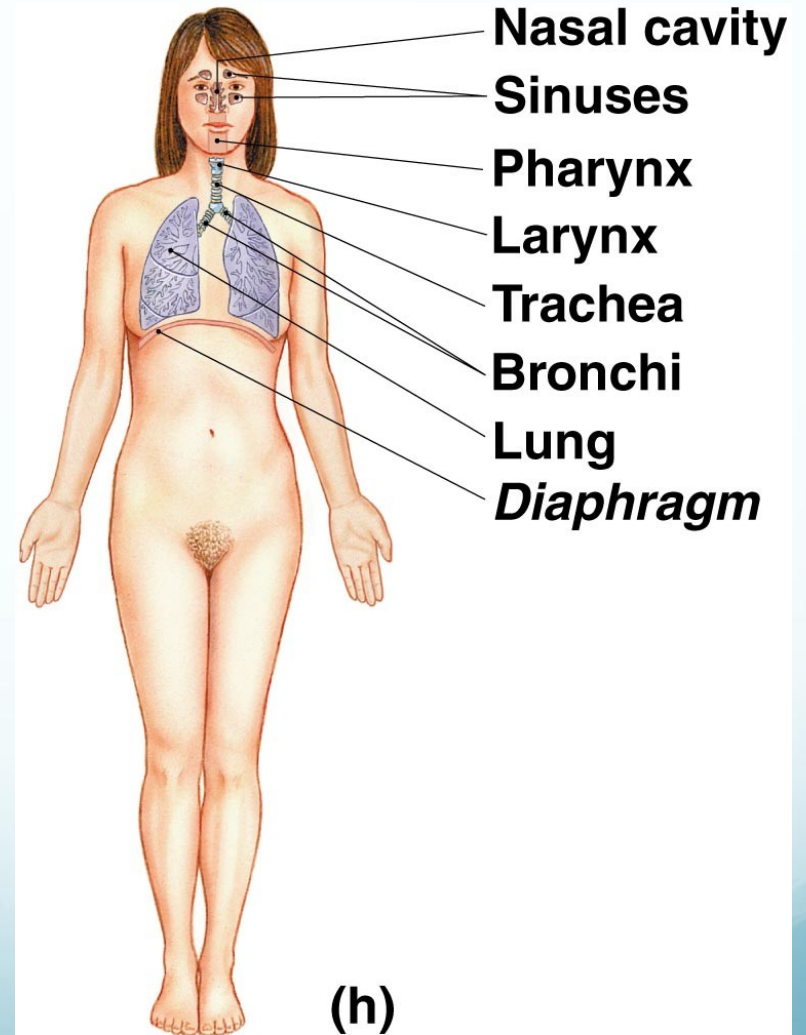
The Cardiovascular System

- Blood vessels transport blood
 - Carries oxygen and carbon dioxide
 - Also carries nutrients and wastes
- Heart pumps blood through blood vessels



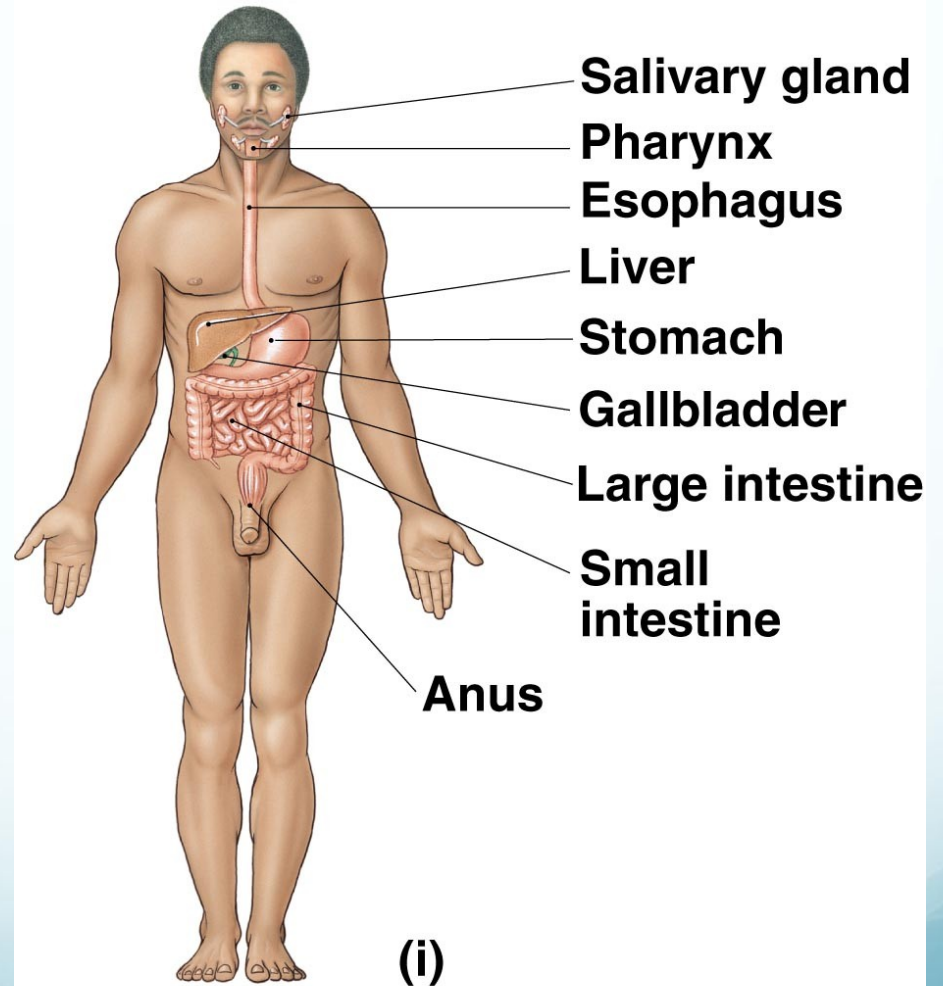
The Respiratory System

- Keeps blood supplied with oxygen
- Removes carbon dioxide
- Gas exchange occurs through walls of air sacs in the lungs



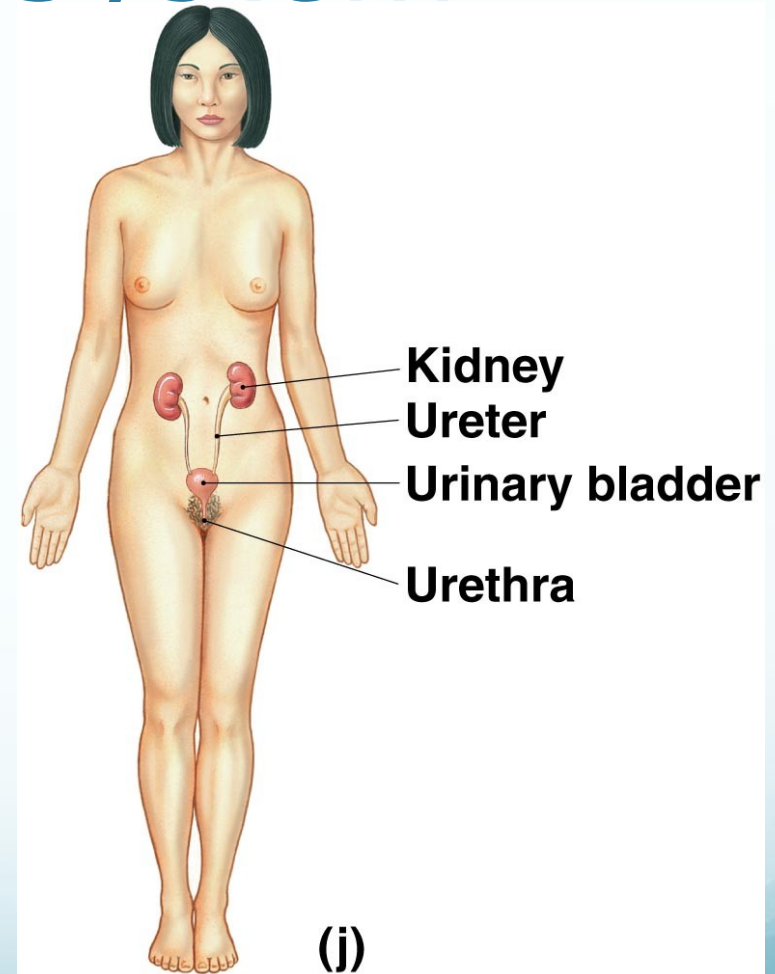
The Digestive System

- Breaks down food into absorbable units
- Indigestible foodstuffs eliminated as feces



The Urinary System

- Eliminates nitrogenous wastes
- Regulates water, electrolyte, and acid-base balance



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